



## Low-Speed Wind Tunnel Testing

*By Jewel B. Barlow, William H. Rae, Alan Pope*

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A brand-new edition of the classic guide on low-speed wind tunnel testing. While great advances in theoretical and computational methods have been made in recent years, low-speed wind tunnel testing remains essential for obtaining the full range of data needed to guide detailed design decisions for many practical engineering problems. This long-awaited Third Edition of William H. Rae, Jr.'s landmark reference brings together essential information on all aspects of low-speed wind tunnel design, analysis, testing, and instrumentation in one easy-to-use resource. Written by authors who are among the most respected wind tunnel engineers in the world, this edition has been updated to address current topics and applications, and includes coverage of digital electronics, new instrumentation, video and photographic methods, pressure-sensitive paint, and liquid crystal-based measurement methods. The book is organized for quick access to topics of interest, and examines basic test techniques and objectives of modeling and testing aircraft designs in low-speed wind tunnels, as well as applications to fluid motion analysis, automobiles, marine vessels, buildings, bridges, and other structures subject to wind loading. Supplemented with real-world examples throughout, *Low-Speed Wind Tunnel Testing, Third Edition* is an indispensable resource for aerospace engineering students and professionals, engineers and researchers in the automotive industries, wind tunnel designers, architects, and others who need to get the most from low-speed wind tunnel technology and experiments in their work.

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#### **From the Publisher**

A revision of the standard book in the field of wind tunnel work. Updated to include the new electronic instrumentation and digital computers now in common use. Covers tunnel design, calibration, and the interfacing of computers and instrumentation.

#### **From the Back Cover**

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#### **About the Author**

JEWEL B. BARLOW, PhD, is Director of the University of Maryland's Glenn L. Martin Wind Tunnel. He is a former chairman of the Subsonic Aerodynamic Testing Association (SATA). WILLIAM H. RAE, Jr. (deceased) was associate director of the F. K. Kirsten Aeronautical Laboratory at the University of Washington and a charter member of the Subsonic Aerodynamic Testing Association. ALAN POPE is a former director of aerodynamics at Sandia National Laboratory. His other books include High-Speed Wind Tunnel Testing and Wind Tunnel Testing.

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